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NOTES/COMMENTS:

Subject: U.S. Serial No. 09/893,396, filed 06-28-2001, entitled Hardware-Based Accelerated Color Correction Filtering System, Applicant: Henry M. D'Souza et al.
Examiner Yang:

As we discussed on the telephone yesterday, I am attaching a proposed amendment to dependent claims 3, 6, 10, 11, 16 and 17 for the above-identified case. I'm also attaching a copy of a terminal disclaimer relative to U.S. Patent No. 6,826,303. In addition, I am faxing the terminal disclaimer to the U.S. Patent and Trademark Office main fax number (571) 273-8300.

Please advise me if you need me to take any further action regarding this matter.

Regards,

Barry D. Blount

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IN THE CLAIMS

Please amend claims 3, 6, 10, 11, 16 and 17 as set forth below.

The text of all pending claims, along with their current status, is set forth below:

1. (Previously presented) A color video data correction filtering system, comprising:
 - a preset monitor profile that comprises monitor specific color characteristics and monitor specific input-output characteristics;
 - a plurality of sets of gamut shifting arrays adapted to obtain the monitor specific color characteristics from the preset monitor profile to compensate for color point data of a plurality of constituent colors of a color monitor with each set of gamut shifting arrays corresponding to a multiplication look-up table (MLUT) comprising values that represent specific multiplication operations; and
 - a plurality of non-linearization tables, each adapted to receive a linear input from one of the sets of gamut shifting arrays and to obtain the monitor specific input-output characteristics from the preset monitor profile to compensate for non-linearities of the color monitor and produce output color video data compensated for non-linearities and color points of the color monitor.
2. (Canceled)

3. (Currently amended) The color filtering system of claim 1, wherein the plurality of constituent colors are representative of a non-linear color space is an sRGB color space.

4. (Canceled)

5. (Previously presented) The color filtering system of claim 1, further comprising:

a graphics controller coupled to the plurality sets of gamut shifting arrays,
wherein compensation for color point data through utilization of the
plurality of sets of gamut shifting arrays is performed at the full
processing speed of the graphics controller.

Currently amended
6. (~~Original~~) The color filtering system of claim 1, wherein the system is adapted to correct ~~[[the]]~~ input color video data ~~is input~~ from a website.

7. (Original) The color filtering system of claim 1, wherein the non-linearities of the color monitor comprise an input-output characteristic for each constituent color of the color monitor.

8. (Previously presented) A computer system, comprising:
a processor;
video memory coupled to the processor; and
a color video data correction filtering system coupled to the processor, the
system comprising:

a preset monitor profile that comprises monitor specific color characteristics and monitor specific input-output characteristics;

a plurality of sets of gamut shifting arrays adapted to obtain the monitor specific color characteristics from the preset monitor profile to compensate for color point data of a plurality of constituent colors of a color monitor with each preset set of pre-calculated gamut shifting arrays corresponding to a multiplication look-up table (MLUT) comprising values that represent specific multiplication operations; and

a plurality of non-linearization tables, each adapted to receive a linear input from one of the sets of gamut shifting arrays and to obtain the monitor specific input-output characteristics from the preset monitor profile to compensate for non-linearities of the color monitor and produce output color video data compensated for non-linearities and color point of the color monitor.

9. (Canceled)

10. (Currently amended) The computer system of claim 8, wherein the plurality of constituent colors are referenced to a ~~[[the]]~~ non-linear color space, ~~are from a website.~~

11. (Currently amended) The computer system of claim 8, wherein the plurality of constituent colors are representative of a non-linear color space is an sRGB color space.

12. (Previously presented) The computer system of claim 8, wherein the plurality of sets of gamut shifting arrays is stored in a plurality of look-up tables.

13. (Original) The computer system of claim 8, wherein the non-linearities of the color monitor comprise an input-output characteristic for each constituent color of the color monitor.

14. (Previously presented) The computer system of claim 8, further comprising:

a graphics controller coupled to the plurality of sets of gamut shifting arrays, wherein compensation for color point data through utilization of the plurality of sets of gamut shifting arrays is performed at the full processing speed of the graphics controller.

15. (Previously presented) A method of color video data correction filtering, comprising the steps of:

retrieving monitor specific color characteristics and monitor specific input-output characteristics from a preset monitor profile;
compensating for color point linear data of a plurality of constituent colors of a color monitor by populating a plurality of gamut shifting arrays with the monitor specific color characteristics and applying the plurality of gamut shifting arrays to the color point linear data, each of the plurality of gamut shifting arrays corresponding to a multiplication look-up table (MLUT) comprising values that represent specific multiplication operations; and

compensating the color linear point data after application of the plurality of gamut shifting arrays for non-linearities of the color monitor by populating a plurality of non-linearization tables with the input-output specific characteristics and applying the plurality of non-linearization tables to the color point linear data to produce output color video data compensated for non-linearities and color points of the color monitor.

16. (Currently amended) The method of claim 15, wherein the ~~input color video data~~ plurality of constituent colors are referenced to ~~[[the]]~~ a non-linear color space, ~~is from a website.~~

17. (Currently amended) The method of claim 15, wherein the plurality of constituent colors are representative of a non-linear color space ~~is an sRGB color space.~~

18. (Canceled)

19. (Original) The method of claim 15, wherein each of the steps of gamma decompensating, compensating using the plurality of pre-calculated gamut shifting arrays and compensating using the plurality of non-linearization tables is performed at a substantially full video rate.

20. (Previously presented) A color correction system, comprising:
a preset monitor profile that comprises monitor specific color characteristics
and monitor specific input-output characteristics;

a color filter that receives image data and produces color video data;
a color point correction system that receives the monitor specific color characteristics from the preset monitor profile and applies the monitor specific color characteristics to the color video data to produce color point linearity corrected video data; and
a non-linearity correction system that receives the monitor specific input-output characteristics from the preset monitor profile and applies the monitor specific input-output characteristics to the color point linearity corrected video data to produce non-linearity corrected video data.

21. (Previously presented) The color correction system set forth in claim 20, wherein the color filter decompensates for non-linear RGB input based on a standard color image gamma function.

22. (Cancelled)

23. (Previously presented) The color correction system set forth in claim 20, wherein each of the plurality of MLUTs are loaded with pre-calculated values that represent specific multiplication operations.

24. (Previously presented) The color correction system set forth in claim 20, wherein each of the plurality of MLUTs comprises pre-calculated RGB component outputs for each of 256 intensities of each primary color.

25. (Previously presented) The color correction system set forth in claim 20, wherein the non-linearity correction system comprises a set of non-linearization color look-up tables (CLUTs).